LCRC FORM 2



WISCONSIN LEGISLATIVE COUNCIL RULES CLEARINGHOUSE

Ronald Sklansky Clearinghouse Director

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CLEARINGHOUSE REPORT TO AGENCY

[THIS REPORT HAS BEEN PREPARED PURSUANT TO S. 227.15, STATS. THIS IS A REPORT ON A RULE AS ORIGINALLY PROPOSED BY THE AGENCY; THE REPORT MAY NOT REFLECT THE FINAL CONTENT OF THE RULE IN FINAL DRAFT FORM AS IT WILL BE SUBMITTED TO THE LEGISLATURE. THIS REPORT CONSTITUTES A REVIEW OF, BUT NOT APPROVAL OR DISAPPROVAL OF, THE SUBSTANTIVE CONTENT AND TECHNICAL ACCURACY OF THE RULE.]

CLEARINGHOUSE RULE 02-095

AN ORDER to amend NR 140.10 Table 1 and Appendix 1, relating to groundwater quality standards.

Submitted by **DEPARTMENT OF NATURAL RESOURCES**

07-08-2002 RECEIVED BY LEGISLATIVE COUNCIL.

07-19-2002 REPORT SENT TO AGENCY.

RS:MCP

LEGISLATIVE COUNCIL RULES CLEARINGHOUSE REPORT

This rule has been reviewed by the Rules Clearinghouse. Based on that review, comments are reported as noted below:

1. STATUTORY AUTHORITY [s. 227.15 (2) (a)]				
	Comment Attached	YES	NO 🗸	
2.	FORM, STYLE AND PLACE	MENT IN ADMINIST	FRATIVE CODE [s. 227.15 (2) (;)]
	Comment Attached	YES 🗸	NO 🗌	
3.	CONFLICT WITH OR DUPL	ICATION OF EXISTI	NG RULES [s. 227.15 (2) (d)]	
	Comment Attached	YES	NO 🗸	
4.	ADEQUACY OF REFERENC [s. 227.15 (2) (e)]	ES TO RELATED ST	ATUTES, RULES AND FORMS	3
	Comment Attached	YES	NO 🗸	
5.	CLARITY, GRAMMAR, PUN	NCTUATION AND US	SE OF PLAIN LANGUAGE [s. 2	27.15 (2) (f)]
	Comment Attached	YES	NO 🗸	
6.	POTENTIAL CONFLICTS W REGULATIONS [s. 227.15 (2		ABILITY TO, RELATED FEDE	RAL
	Comment Attached	YES	NO 🗸	
7.	COMPLIANCE WITH PERM	IT ACTION DEADLI	NE REQUIREMENTS [s. 227.15	(2) (h)]
	Comment Attached	YES	NO 🗸	



WISCONSIN LEGISLATIVE COUNCIL RULES CLEARINGHOUSE

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CLEARINGHOUSE RULE 02-095

Comments

[NOTE: All citations to "Manual" in the comments below are to the Administrative Rules Procedures Manual, prepared by the Revisor of Statutes Bureau and the Legislative Council Staff, dated September 1998.]

2. Form, Style and Placement in Administrative Code

The superscript numbers for several of the notes after s. NR 140.10, Table 1, are changed by the rule. For clarity, the existing numbers should be shown with a strike-through.

Report to Legislative Council Rules Clearinghouse NR 140.10, Wis. Adm. Code Natural Resources Board Order No. DG-37-02

Wisconsin Statutory Authority

ss. 281.12(1), 281.15, 281.19(1) and 299.11, Stats., and ch. 160, Stats., interpreting ss. 281.12(1), 281.15, 181.19(1) and 299.11, Stats., and ch. 160, Stats.

Federal Authority

N/A

Court Decisions Directly Relevant

None

Analysis of the Rule - Rule Effect - Reason for the Rule

Chapter 160, Stats., requires the Department to develop numerical groundwater quality standards, consisting of enforcement standards and preventive action limits. Chapter NR 140 establishes groundwater standards and creates a framework for implementation of the standards by the Department. The proposed amendments are based on recommendations from the Department of Health and Family Services. New public health related groundwater quality standards are proposed for Alachlor ethane sulfonic acid (Alachlor ESA) and molybdenum. Revised public health related groundwater quality standards are proposed for Butylate, Dacthal and Naphthalene.

Alachlor ESA is a metabolite of the broadleaf herbicide Alachlor, used in Wisconsin on corn and soybeans. Alachlor ESA was found in 28% of the private water supply systems sampled in a 2000 Wisconsin survey, and in a significantly high percentage of private systems in other surveys done in the state. Molybdenum is a metallic element used in the manufacture of steel alloys and in a variety of other industrial processes. In a survey of groundwater monitoring results from the Wisconsin Groundwater Retrieval Network, molybdenum was detected in 45% of potable wells sampled for the substance.

Butylate is a herbicide used in Wisconsin on corn. Dacthal is a herbicide used primarily in Wisconsin on strawberries. Naphthalene is a volatile organic compound that is a constituent of coal tar and petroleum products, and is also used as a wood preservative and in making moth repellent.

Agency Procedures for Promulgation

Public hearings, Natural Resources Board final adoption, followed by legislative review.

Description of any Forms (attach copies if available)

None

Name and Telephone Number of Agency Liaisons

Bill Phelps, Bureau of Drinking Water and Groundwater – 267-7619 Mike Scott, Bureau of Legal Services – 266-7527 Carol Turner, Bureau of Legal Services - 266-1959

Submitted on July 8, 2002

ORDER OF THE STATE OF WISCONSIN NATURAL RESOURCES BOARD AMENDING RULES

The Wisconsin Natural Resources Board proposes an order to amend NR 140.10 Table 1 and Appendix 1, relating to groundwater quality standards.

DG-37-02

Analysis Prepared by the Department of Natural Resources

Statutory authority: ss.281.12(1), 281.15, 281.19(1) and 299.11, Stats., and ch. 160, Stats.

Statutes interpreted: ss. 281.12(1), 281.15, 281.19(1) and 299.11, Stats., and ch. 160, Stats.

Chapter 160, Stats., requires the Department to develop numerical groundwater quality standards, consisting of enforcement standards and preventive action limits. Chapter NR 140, Wis. Adm. Code, establishes groundwater standards and creates a framework for implementation of the standards by the Department. The proposed amendments to ch. NR 140 would add groundwater quality standards for 2 additional substances and revise existing groundwater quality standards for 3 substances. In accordance with ch. 160, Stats., amendments to ch. NR 140 groundwater quality standards are based on recommendations from the Department of Health and Family Services. New public health related groundwater quality standards are proposed for Alachlor ethane sulfonic acid (Alachlor ESA) and Molybdenum. Revised public health related groundwater quality standards are proposed for Butylate, Dacthal and Naphthalene.

SECTION 1. NR 140.10, Table 1 is amended to read:

Table 1
Public Health Groundwater Quality Standards

Substance ¹	Enforcement Standard (micrograms per liter - except as noted)	Preventive Action Limit (micrograms per liter - except as noted)
Acetone	1000	200
Alachlor	2	0.2
Alachlor ethane sulfonic acid (Alachlor ESA) ²	<u>20</u>	$\frac{4}{2}$
Aldicarb	10	2
Antimony	6	1.2
Anthracene	3000	600
Arsenic	50	5
Asbestos	7 million fibers per liter (MFL)	0.7 MFL
Atrazine, total chlorinated residues	$3^{\frac{3}{2}}$	$0.3^{\frac{3}{2}}$
Bacteria, Total Coliform	0 ⁴	04
Barium	2 milligrams/liter (mg/l)	0.4 mg/l
Bentazon	300	60
Benzene	5	0.5
Benzo(b)fluoranthene	0.2	0.02
Benzo(a)pyrene	0.2	0.02

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Beryllium	4	0.4
Boron	960	190
Bromodichloromethane	0.6	0.06
Bromoform	4.4	0.44
Bromomethane	10	1
Butylate	67 <u>400</u>	6.7 <u>80</u>
Cadmium	5	0.5
Carbaryl	960	192
Carbofuran	40	8
Carbon disulfide	1000	200
Carbon tetrachloride	5	0.5
Chloramben	150	30
Chlordane	2	0.2
Chloroethane	400	80
Chloroform	6	0.6
Chloromethane	3	0.3
Chromium	100	10
Chrysene	0.2	0.02
Cobalt	40	8
Copper	1300	130
Cyanazine	1	0.1
Cyanide	200	40
Dacthal	4- mg/ 4 <u>70</u>	0.8 mg/l <u>14</u>
1,2-Dibromoethane (EDB)	0.05	0.005
Dibromochloromethane	60	6
1,2-Dibromo-3-chloropropane (DBCP)	0.2	0.02
Dibutyl phthalate	100	20
Dicamba	300	60
1,2-Dichlorobenzene	600	60
1,3-Dichlorobenzene	1250	125
1,4-Dichlorobenzene	75	15
Dichlorodifluoromethane	1000	200
1,1-Dichloroethane	850	85
1,2-Dichloroethane	5	
1,1-Dichloroethylene	7	0.5
1,2-Dichloroethylene (cis)	70	0.7 7
1,2-Dichloroethylene (trans)	100	
2,4-Dichlorophenoxyacetic Acid (2,4-D)	70	20
1,2-Dichloropropane	5	7
1,3-Dichloropropene (cis/trans)	0.2	0.5
Di (2-ethylhexyl) phthalate	6	0.02
Dimethoate	2	0.6
2,4-Dinitrotoluene		0.4
2,6-Dinitrotoluene	0.05	0.005
Dinoseb	0.05	0.005
Dioxin (2, 3, 7, 8-TCDD)	7	1.4
Endrin	0.00003	0.000003
EPTC	2	0.4
Ethylbenzene	250	50
Ethylene glycol	700	140
Fluoranthene	7 mg/l	0.7 mg/l
Fluorene	400	80
Fluoride	400	80
	4 mg/l	0.8 mg/l
Fluorotrichloromethane	3490	698
Formaldehyde	1000	100
Heptachlor	0.4	0.04
Heptachlor epoxide	0.2	0.02
Hexachlorobenzene	1	0.1
N-Hexane	600	120
Hydrogen sulfide	30	6
Lead	15	1.5
Lindane	0.2	0.02

Mercury	2	0.2
Methanol	5000	1000
Methoxychlor	40	4
Methylene chloride	5	0.5
Methyl ethyl ketone (MEK)	460	90
Methyl isobutyl ketone (MIBK)	500	50
Methyl tert-butyl ether (MTBE)	60	12
Metolachlor	15	1.5
Metribuzin	250	50
Molybdenum	<u>40</u>	<u>8</u>
Monochlorobenzene	100	20
Naphthalene	40 <u>100</u>	8 <u>10</u>
Nickel	100	20
Nitrate (as N)	10 mg/l	2 mg/l
Nitrate + Nitrite (as N)	10 mg/l	2 mg/l
Nitrite (as N)	l mg/l	0.2 mg/l
N-Nitrosodiphenylamine	7	0.7
Pentachlorophenol (PCP)	1	0.1
Phenol	6 mg/1	1.2 mg/1
Picloram	500	100
Polychlorinated biphenyls (PCBs)	0.03	0.003
Prometon	90	18
Pyrene	250	50
Pyridine	10	2
Selenium	50	10
Silver	50	10
Simazine	4	0.4
Styrene	100	10
1,1,1,2-Tetrachloroethane	70	7
1,1,2,2-Tetrachloroethane	0.2	0.02
Tetrachloroethylene	5	0.5
Tetrahydrofuran	50	10
Thallium	2	0.4
Toluene	1 mg/l	0.2 mg/l
Toxaphene	3	0.3
1,2,4-Trichlorobenzene	70	14
1,1,1-Trichloroethane	200	40
1,1,2-Trichloroethane	5	0.5
Trichloroethylene (TCE)	5	0.5
2,4,5-Trichlorophenoxy-propionic acid (2,4,5-TP)	50	5
1,2,3-Trichloropropane	60	12
Trifluralin	7.5	0.75
Trimethylbenzenes	480	96
(1,2,4- and 1,3,5- combined)		
Vanadium	30	6
Vinyl chloride	0.2	0.02
Xylene ⁵	10 mg/l	l mg/l

¹ Appendix I contains Chemical Abstract Service (CAS) registry numbers, common synonyms and trade names for most substances listed in Table 1.

²Synonyms for the ethane sulfonic acid metabolite of Alachlor (Alachlor ESA) include: MON 5775; 2',6'-diethyl-N-methoxymethyl-2-sulfoacetanilide, sodium salt and 2-[2,6-diethylphenyl(methoxymethyl) amino]-2-oxoethane sulfonic acid, sodium salt.

Potal chlorinated atrazine residues includes parent compound and the following metabolites of health concern: 2-chloro-4-amino-6-isopropylamino-s-triazine (formerly deethylatrazine), 2-chloro-4-amino-6-ethylamino-s-triazine (formerly deisopropylatrazine) and 2-chloro-4,6-diamino-s-triazine (formerly diaminoatrazine).

⁴ Potal coliform bacteria may not be present in any 100 ml sample using either the membrane filter (MF) technique,

the presence-absence (P-A) coliform test, the minimal medium ONPG-MUG (MMO-MUG) test or not present in any 10 ml portion of the 10-tube multiple tube fermentation (MTF) technique.

Exylene includes meta-, ortho-, and para-xylene combined. The preventive action limit has been set at a concentration that is intended to address taste and odor concerns associated with this substance.

SECTION 2. Appendix 1 to Table 1 is amended to read:

APPENDIX TO TABLE 1 PUBLIC HEALTH GROUNDWATER QUALITY STANDARDS

Substance	CAS RN ¹	Common synonyms/Tradename ²
Acetone	67-64-1	Propanone
Alachlor	15972-60-8	Lasso
Aldicarb	116-06-3	Temik
Anthracene	120-12-7	Para-naphthalene
Asbestos	12001-29-5	
Bentazon	25057-89-0	Basagran
Benzene	71-43-2	24048,411
Benzo(b)fluoranthene	205-99-2	B(b)F,3,4-Benzofluoranthene
Benzo(a)pyrene	50-32-8	BaP, B(a)P
Boron	7440-42-8	$\mathcal{D}u$, $\mathcal{D}(u)$
Bromodichloromethane	75-27-4	Dichlorobromomethane, BDCM
Bromoform	75-25-2	Tribromomethane
Bromomethane	74-83-9	Methyl bromide
Butylate	2008-41-5	S-ethyl di-isobutylthiocarbamate,
		Sutan+
Carbaryl	63-25-2	Sevin
Carbofuran	1563-66-2	Furadan
Carbon disulfide	75-15-0	Carbon bisulfide
Carbon tetrachloride	56-23-5	Tetrachloromethane, Perchloroethane
Chloramben	133-90-4	rondemoroniemane, i eremoroemane
Chlordane	57-74-9	
Chloroethane	75-00-3	Ethyl chloride, Monochloroethane
Chloroform	67-66-3	Trichloromethane
Chloromethane	74-87-3	Methyl chloride
Chrysene	218-01-9	1,2-Benzphenanthrene
Cobalt	7440-48-4	t, = = to phonam one
Cyanazine	21725-46-2	Bladex, 2-chloro-4-ethylamino-6-
		nitriloisopropylamino-s-triazine
Cyanide	57-12-5	warneteep op familie a triazine
Dacthal	1861-32-1	DPCA, Chlorothal, Dacthalor,
		1,4-benzenedicarboxylic acid
Dibromochloromethane	124-48-1	Chlorodibromomethane, DBCM
1,2-Dibromo-3-chloropropane	96-12-8	DBCP, Dibromochloropropane
1,2-Dibromoethane	106-93-4	EDB, Ethylene dibromide, Dibromoethane
Dibutyl phthalate	84-74-2	DP, Di-n-butyl phthalate, n-Butyl phthalate
Dicamba	1918-00-9	Banvel
1,2-Dichlorobenzene	95-50-1	o-Dichlorobenzene, o-DCB
1,3-Dichlorobenzene	541-73-1	m-Dichlorobenzene, m-DCB
1,4-Dichlorobenzene	106-46-7	p-Dichlorobenzene, p-DCB
Dichlorodifluoromethane	75-71-8	Freon 12
1,1,-Dichloroethane	75-34-3	Ethylidine chloride
1,2-Dichloroethane	107-06-2	1,2-DCA, Ethylene dichloride
1,1-Dichloroethylene	75-35-4	1,1-DCE, 1,1-Dichloroethene, Vinylidene

		chloride
1,2-Dichloroethylene (cis)	156-59-2	cis-Dichloroethylene, 1,2-Dichloroethene
•		(cis)
1,2-Dichloroethylene (trans)	156-60-5	trans-1,2-Dichloroethylene
2,4-Dichlorophenoxyacetic acid	94-75-7	2,4-D
1,2-Dichloropropane	78-87-5	Propylene dichloride
1,3-Dichloropropene		Telone, DCP, Dichloropropylene
(cis/trans) ³	117 01 7	DEUD BY A STATE OF THE STATE OF
Di(2-ethylhexyl) phthalate	117-81-7	DEHP, Bis(2-ethylhexyl) phthalate, 1,2-
		Benzenedicarboxylic acid, Bis (2- ethylhexyl)ester
Dimethoate	60-51-5	etilymexyr)ester
2,4-Dinitrotoluene	121-14-2	2,4-DNT, 1-methyl-2,4-dinitrobenzene
2,6-Dinitrotoluene	606-20-2	2,4-DNT, 1-methyl-1,3-dinitrobenzene
Dinoseb	88-85-7	2-(1-methylpropyl)-4,6-dinitrophenol
Dioxin	1746-01-6	2,3,7,8-TCDD,2,3,7,8-Tetrachlorodibenzo-p-
		dioxin
Endrin	72-20-8	
EPTC	759-94-4	Eptam, Eradicane
Ethylbenzene	100-41-4	Phenylethane, EB
Ethylene glycol	107-21-1	
Fluoranthene	206-44-0	Benzo(jk)fluorene
Fluorene	86-73-7	2,3-Benzidine, Diphenylenemethane
Fluoride	16984-48-8	•
Fluorotrichloromethane	75-69-4	Freon11, Trichlorofluoromethane
Formaldehyde	50-00-0	
Heptachlor anguida	76-44-8	Velsicol
Heptachlor epoxide	1024-57-3	P 11 1 2
Hexachlorobenzene N-Hexane	118-74-1 110-54-3	Perchlorobenzene, Granox
Hydrogen sulfide	7783-06-4	Hexane, Skellysolve B Dihydrogen sulfide
Lindane	58-89-9	Dinydrogen suitide
Mercury	7439-97-6	
Methanol	67-56-1	Mathyl alashal, Wood alashal
Methoxychlor	72-43-5	Methyl alcohol, Wood alcohol
Methylene chloride	75-09-2	Dichloromethane, Methylene dichloride
Methyl ethyl ketone	78-93-3	MEK, 2-Butanone
Methyl isobutyl ketone	108-10-1	MIBK, 4-Methyl-2-pentanone,
		Isopropylacetone, Hexone
Methyl tert-butyl ether	1634-04-4	MTBE, 2-Methoxy-2-methyl-propane, tert-
		Butyl methyl ether
Metolachlor	51218-45-2	Dual, Bicep, Milocep
Metribuzin	21087-64-9	Sencor, Lexone
Molybdenum Monochlorobenzene	7439-98-7	
Naphthalene	108-90-7	Chlorobenzene
N-Nitrosodiphenylamine	91-20-3	NDD
Pentachlorophenol	86-30-6 87-86-5	NDPA
Phenol	108-95-2	PCP, Pentachlorohydroxybenzene
Picloram	1918-02-1	Toudon Alemine 2.5.6 triality and 1.1
Polychlorinated biphenyls ⁴	1918-02-1	Tordon, 4-amino-3,5,6-trichloropicolinic acid PCBs
Prometon	1610-18-0	Pramitol, Prometone
Pyrene	129-00-0	Benzo(def)phenanthrene
Pyridine	110-86-1	Azabenzene
Simazine	122-34-9	Princep, 2-chloro-4,6-diethylamino- s-
		triazine
Styrene	100-42-5	Ethenylbenzene, Vinylbenzene
1,1,1,2-Tetrachlorethane	630-20-6	1,1,1,2-TCA
1,1,2,2,-Tetrachloroethane	79-34-5	1,1,2,2-TCA
Tetrahudra furan	127-18-4	Perchloroethylene, PERC, Tetrachloroethene
Tetrahydrofuran	109-99-9	THF

Toluene	108-88-3	Methylbenzene	
Toxaphene	8001-35-2	,	
1,2,4-Trichlorobenzene	120-82-1		
1,1,1-Trichloroethane	71-55-6	Methyl chloroform	
1,1,2-Trichloroethane	79-00-5	1,1,2-TCA, Vinyl trichloride	
Trichloroethylene	79-01-6	TCE, Chloroethene	
2,4,5-Trichlorophenoxy-	93-72-1	2,4,5-TP, <i>Silvex</i>	
propionic acid			
1,2,3-Trichloropropane	96-18-4	1,2,3-TCP, Glycerol trichlorohyrin	
Trifluralin	1582-09-8	Treflan	
1,2,4-Trimethylbenzene	95-63-6		
1,3,5-Trimethylbenzene	108-67-8		
Vanadium	7440-62-2		
Vinyl chloride	75-01-4	VC, Chloroethene	
Xylene ⁵		ue numbers assigned to a chemical substance. The CAS registry	
⁴ Polychlorinated biphenyls (CAS R different molecular structure and for RN 11104-28-2), Aroclor-1232 (C. 6), Aroclor-1254 (CAS RN 11097-	tance which includes cis 1,3-02-6). RN 1336-36-3); this category ormula), including constituer AS RN 11141-16-5), Aroclo-69-1), and Aroclor-1260 (Cars to a mixture of three isom	-Dichloropropene (CAS RN 10061-01-5) and trans 1,3- v contains congener chemicals (same molecular composition, into of Aroclor-1016 (CAS RN12674-11-2), Aroclor-1221 (CAS rr-1242 (CAS RN 53469-21-9), Aroclor-1248 (CAS RN 12672-29-AS RN 11096-82-5). ers, meta-xylene (CAS RN 108-38-3), ortho-xylene (CAS RN 95-	
The foregoing rules Board on	were approved and ado	pted by the State of Wisconsin Natural Resources	
	•		
The rules shall take of administrative register as pro	effect on the first day of ovided in s. 227.22(2)(in	f the month following publication in the Wisconsin ntro.), Stats.	
Dated at Madison, W	isconsin		
	o m	ATE OF MICCONORY	
	STATE OF WISCONSIN		
	DE	PARTMENT OF NATURAL RESOURCES	
	n		
	Ву	Darrell Bazzell, Secretary	
		Darrell Bazzell, Secretary	

(SEAL)